DERWENT-ACC-NO: 1997-054544

DERWENT-WEEK: 200219

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TITLE: Current generation system for IC engine motor

vehicle - has fuel cell system for generating electrical power

for operating electrical loads and device for separating bydogen from agains find with collisions automore

hydrogen from engine fuel with splitting system and hydrogen separation system

INVENTOR: ABERSFELDER, G; BUCHNER, H

PATENT-ASSIGNEE: DAIMLERCHRYSLER AG[DAIM] , MERCEDES-BENZ AG[DAIM]

PRIORITY-DATA: 1995DE-1023109 (June 26, 1995), 1995DE-2022067 (June 26, 1995)

# PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES MAIN-II EP 751045 A2	PC January 2, 1997	G	006
B60R 016/02 US 6346340 B1	February 12, 2002	N/A	000
H01M 008/02	January 9, 1997	N/A	007

B60R 016/04 000 September 9, 1999 N/A DE 29522067 U1 B60R 016/04 N/A 000 April 3, 2001 US 6210822 B1 H01M 008/06 000 N/A October 11, 2001 DE 19523109 C2 B60R 016/04

# DESIGNATED-STATES: DE FR GB IT SE

### CITED-DOCUMENTS: No-SR.Pub

#### APPLICATION-DATA:

APPLICATION-D	ATA:			
PUB-NO	APPL-DESCRIPTO	R .	APPL-NO	
APPL-DATE			0105005	Mari
EP 751045A2	N/A	1996EP-	0107325	May
9, 1996		400 (7.10	0672065	
US 6346340B1	N/A	199608	S-0672065	
June 26, 1996		1005	E 1022100	
DE 19523109A1	N/A	1995L	E-1023109	
June 26, 1995		10	95DE-10231	00
DE 29522067U1	Application no.	19	92DE-10721	0,5
June 26, 1995	****	10051	E-2022067	
DE 29522067U1	N/A	19931	)E-2022007	
June 26, 1995	m.	10061	JS-0672065	
US 6210822B1	Div ex	19900	13-00/2005	
June 26, 1996	****	20001	S-0482055	
US 6210822B1	N/A	20000	3-0462033	
January 13, 2000	1	10051	DE-1023109	
DE 19523109C2	N/A	19931	JE-1023107	
June 26, 1995				

INT-CL (IPC): B60K025/08, B60R016/02, B60R016/04, H01M008/02, H01M008/06, H02K007/18

## ABSTRACTED-PUB-NO: EP 751045A

#### BAS1C-ABSTRACT:

The system contains e.g. a H2/O2 fuel cell system (4) such as PEM-cell with a

proton-conducting membrane, for generating electrical power for operating

electrical loads (5) instead of a conventional generator, but other types of

fuel-cell could be used instead. It contains a device (10,11) for separating

hydrogen from the fuel used to operate the internal combustion engine, a pipe

line (12) for delivering the hydrogen to the fuel cell system and a disposal line (15) for delivering the residual fuel constituents to the engine (1)

and/or to a fuel tank (2).

The hydrogen separating system consists of a splitting system (10) and a

hydrogen separation system (11). In the splitting system the fuel is split

into hydrogen and a residual gas. In the hydrogen separating system the

hydrogen is separated from the remaining fuel components.

ADVANTAGE - Current for electrical loads is provided with reduced fuel consumption and independently of the instantaneous engine revs. rate.

# ABSTRACTED-PUB-NO: US 6210822B

## EOUIVALENT-ABSTRACTS:

The system contains e.g. a H2/O2 fuel cell system (4) such as PEM-cell with a

proton-conducting membrane, for generating electrical power for operating electrical loads (5) instead of a conventional generator, but other

types of fuel-cell could be used instead. It contains a device (10,11) for

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ADVANTAGE - Current for electrical loads is provided with reduced fuel

consumption and independently of the instantaneous engine revs. rate.

#### US 6346340B

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hydrogen is separated from the remaining fuel components.

ADVANTAGE - Current for electrical loads is provided with reduced fuel consumption and independently of the instantaneous engine revs. rate.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: CURRENT GENERATE SYSTEM IC ENGINE MOTOR VEHICLE FUEL CELL SYSTEM GENERATE ELECTRIC POWER OPERATE ELECTRIC LOAD DEVICE SEPARATE HYDROGEN ENGINE FUEL SPLIT SYSTEM HYDROGEN SEPARATE SYSTEM

DERWENT-CLASS: Q13 Q17 X22

EPI-CODES: X22-F03:

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-044731